

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|------------------------------|------------------|---------|------------------|
| S1 | 1 | peak near2 jong-sung.in. | US-PGPUB; USPAT | OR | OFF | 2006/12/14 12:48 |
| S2 | 9846 | amd.asn. applied.asn. kla.asn. orbotech.asn. | US-PGPUB; USPAT | OR | ON | 2006/12/14 12:52 |
| S3 | 87 | alignment near2 mark and S2 | US-PGPUB; USPAT | OR | ON | 2006/12/14 12:52 |
| S4 | 2 | alignment near2 mark with (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) and S2 | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:45 |
| S5 | 575 | 382/151.ccls. | US-PGPUB; USPAT | OR | ON | 2006/12/18 12:41 |
| S6 | 16 | alignment near2 mark with (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) and S5 | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:47 |
| S7 | 1388 | alignment near2 mark with (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) | US-PGPUB; USPAT | OR | ON | 2006/12/14 13:12 |
| S8 | 1226 | alignment near2 mark with (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) and (semiconductor wafer PCB circuit adj board) | US-PGPUB; USPAT | OR | ON | 2006/12/14 13:13 |
| S9 | 14 | alignment near2 mark with (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) same (alignment mark) with (identif\$6 recogn\$7 match\$3 verif\$8) near3 (pattern) and (semiconductor wafer PCB circuit adj board) | US-PGPUB; USPAT | OR | ON | 2006/12/14 13:15 |
| S10 | 24 | ("3821545" "3861798" "3928094" "4815854" "4838693").PN. OR ("5172190").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/12/14 13:18 |
| S11 | 343 | 382/151.ccls. and (recogn\$6 identif\$7 match\$3) with (pattern mark align\$4) | US-PGPUB; USPAT | OR | ON | 2006/12/14 16:13 |
| S12 | 223 | pattern near3 (recogni\$4 identif\$6 match\$3) with align\$4 near2 (mark symbol seal) | US-PGPUB; USPAT | OR | ON | 2006/12/18 12:42 |
| S13 | 575 | 382/151.ccls. | US-PGPUB; USPAT | OR | ON | 2006/12/18 12:42 |
| S14 | 17 | S13 and S12 | US-PGPUB; USPAT | OR | ON | 2006/12/18 12:42 |

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| S15 | 9 | ("3898617" "4115762" "4566125" "4688088" "4794646" "4794648" "4878114" "5543921" "5627912").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/12/18 13:09 |
| S16 | 607 | 382/151.ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:49 |
| S17 | 2 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) with (crop\$4 delet\$3) and S16 | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:58 |
| S18 | 4 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) with (crop\$4 delet\$3) same align\$4 and "382".clas. | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:53 |
| S19 | 94 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) with (crop\$4 delet\$3) same (recogni\$5 identif\$7 match\$3) and "382".clas. | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:54 |
| S20 | 28 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) with (crop\$4 delet\$3) same (recogni\$5 identif\$7 match\$3) and "382".clas. and align\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/16 09:58 |
| S21 | 25 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) and (crop\$4 delet\$3) and S16 | US-PGPUB; USPAT | OR | ON | 2007/05/16 10:07 |
| S22 | 16 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) same (crop\$4 delet\$3) same (align\$4 mark match identif\$7 recogn\$5) and 382/135-154,184,190,199,287.ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/16 10:16 |
| S23 | 30 | (expand\$3 magnif\$7 expansion zoom\$3 focus\$3 enlarg\$5) same (crop\$4) and 382/135-154,184,190, 199,287.ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/16 16:57 |
| S24 | 23 | S23 not S22 | US-PGPUB; USPAT | OR | ON | 2007/05/16 10:27 |
| S25 | 0 | search near3 area with zoom\$3 with crop\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/16 10:28 |
| S27 | 0 | wafer same alignment near2 mark with zoom\$3 | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:08 |
| S28 | 6 | alignment near2 mark with zoom\$3 | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:22 |
| S29 | 386 | alignment near2 mark with enlarg\$6 | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:10 |
| S30 | 168 | alignment near2 mark with enlarg\$6 same (wafer semiconductor circuit pcb) | US-PGPUB; USPAT | OR | ON | 2007/09/12 15:44 |

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| S31 | 46 | alignment near2 mark with enlarg\$6 same (wafer semiconductor circuit pcb) and alignment near2 mark with (identif\$7 recogni\$6 distinguish\$3 match\$3) | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:14 |
| S32 | 19 | ("20010046315" "20020175300" "20020176096" "20040114143" "20040129900" "4669883" "4777641" "4883359" "4971444" "5133603" "5659384" "5680200" "5760411" "6151120" "6285033" "6493065" "6529625" "6563573" "6844918").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/16 17:19 |
| S33 | 12 | (enlarg\$4 magnif\$5) and S32 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/16 17:20 |
| S34 | 12 | (enlarg\$4 magnif\$5 zoom\$3) and S32 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/16 17:20 |
| S35 | 113 | reference near2 mark with (zoom\$3 enlarg\$3 magnif\$7) same align\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:28 |
| S36 | 51 | reference near2 mark with (zoom\$3 enlarg\$3 magnif\$7) and mark with (identif\$7 recogni\$6 distinguish\$3 match\$3) and (wafer semiconductor circuit pcb) with align\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/16 17:29 |
| S37 | 48 | reference near2 mark with (zoom\$3 enlarg\$3 magnif\$7) and mark with (identif\$7 recogni\$6 distinguish\$3 match\$3) and (wafer semiconductor circuit pcb) with align\$4 not S31 | US-PGPUB; USPAT | OR | ON | 2007/05/17 10:50 |
| S38 | 21 | (reference wafer alignment) near2 mark near7 (zoom\$3) | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:46 |
| S39 | 1 | "20040037458" | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:35 |
| S40 | 6 | (reference wafer alignment) near2 mark near7 (window adj frame) | US-PGPUB; USPAT | OR | ON | 2007/05/17 10:52 |
| S41 | 1089 | coarse same fine same (alignment reference wafer key) near2 mark | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:06 |
| S42 | 1 | coarse near3 search same fine same (alignment reference wafer key) near2 mark | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:05 |
| S43 | 0 | ("2005/0156334").URPN. | USPAT | OR | OFF | 2007/05/17 11:06 |
| S45 | 6 | coarse same fine same (alignment reference wafer key) near2 mark and 382/145-151.ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:10 |

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| S46 | 0 | bishop.in. and 382/151.ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:07 |
| S47 | 4 | bishop.in. and 382/145-152.ccls. | US-PGPUB; USPAT | OR | ON | 2007/09/18 21:22 |
| S48 | 1069 | coarse same fine same (alignment reference wafer key) near2 mark and (wafer semiconductor circuit pcb) and align\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:11 |
| S49 | 24 | coarse same fine same (alignment reference wafer key) near2 mark same (zoom\$3 enlarg\$4 magnif\$7) and (wafer semiconductor circuit pcb) and align\$4 | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:16 |
| S50 | 103 | 382/151.ccls. and alignment near2 mark | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:17 |
| S51 | 0 | 382/151.ccls. and alignment near2 mark with "fig." | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:16 |
| S52 | 0 | 382/151.ccls. and alignment near2 mark with fig | US-PGPUB; USPAT | OR | ON | 2007/05/17 11:17 |
| S53 | 5 | CCD with grey and 382/145-151. ccls. | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:35 |
| S54 | 10455 | (reference wafer alignment) near2 mark same (semiconductor wafer pcb board circuit) | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:48 |
| S55 | 264 | (reference wafer alignment) near2 mark with figure same (semiconductor wafer pcb board circuit) | US-PGPUB; USPAT | OR | ON | 2007/05/17 17:49 |
| S56 | 178 | (reference wafer alignment) near2 mark with figure same (semiconductor wafer) | US-PGPUB; USPAT | OR | ON | 2007/05/17 18:13 |
| S57 | 1 | "5151750".pn. | US-PGPUB; USPAT | OR | ON | 2007/05/17 18:13 |
| S58 | 1 | "20040037458" | US-PGPUB | OR | ON | 2007/09/12 16:10 |
| S59 | 17 | (key primary main) adj align\$4 adj mark | US-PGPUB | OR | ON | 2007/09/12 16:12 |
| S60 | 19 | (key primary main) adj (align\$4 reference) adj mark | US-PGPUB | OR | ON | 2007/09/12 16:15 |
| S61 | 27 | (key primary main) adj (align\$4 reference) adj mark | USPAT | OR | ON | 2007/09/12 16:26 |
| S63 | 79548 | (detect\$3 find\$3 recogni\$7 identif\$7 search\$3) near3 (key (reference wafer alignment) near2 mark) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:40 |
| S64 | 106 | coarse same fine same S63 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:24 |

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| S65 | 13482 | (delet\$3 filter\$3) near7 (key (reference wafer alignment) near2 mark) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:25 |
| S66 | 3 | S64 and S65 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:25 |
| S67 | 20208 | 382/145-152.ccls. 257/797.ccls. 438/14,15.ccls. 356/399-401.ccls. 355/53,55.ccls. 430/22,30.ccls. 250/548.ccls. 349/158,110,129.ccls. 437/5.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:30 |
| S68 | 30 | S64 and S67 | US-PGPUB; USPAT | OR | ON | 2007/09/12 16:39 |
| S69 | 3859 | (detect\$3 find\$3 recogni\$7 identif\$7 search\$3 match\$3) near3 (shape type) near3 (mark key) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/19 11:42 |
| S72 | 858 | amd.asn. applied near2 m.asn. kla. asn. orbotech.asn. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:42 |
| S73 | 20906 | S67 S72 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:42 |
| S74 | 17 | S73 and S69 and S65 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 16:43 |
| S75 | 25 | (US-20020191860-\$ or US-20030199131-\$ or US-20020006561-\$).did. or (US-5172190-\$ or US-6925203-\$ or US-4213117-\$ or US-4880309-\$ or US-4115762-\$ or US-5815594-\$ or US-4566125-\$ or US-4794648-\$ or US-4667109-\$ or US-5680200-\$ or US-6072915-\$ or US-6668075-\$ or US-4699515-\$ or US-5272763-\$ or US-6424052-\$ or US-6278957-\$ or US-6295120-\$ or US-6856931-\$ or US-3796497-\$ or US-4798470-\$ or US-6373548-\$ or US-5771085-\$). did. | US-PGPUB; USPAT | OR | OFF | 2007/09/12 17:11 |
| S76 | 1 | crop\$4 and S75 | US-PGPUB; USPAT | OR | OFF | 2007/09/12 17:11 |
| S79 | 191 | crop\$3 near7 (key (reference wafer alignment) near2 mark) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 17:15 |
| S80 | 1 | S73 and S79 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 17:16 |

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| S81 | 494 | (trim\$4 clip\$4 cut\$4 delet\$4 reduc\$3) near5 (key (reference wafer alignment) near2 mark) and S73 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/18 21:24 |
| S82 | 130 | (trim\$4 clip\$4 cut\$4 delet\$4 reduc\$3) near5 (key (reference wafer alignment) near2 mark) same S63 and S73 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/12 17:17 |
| S83 | 25 | ("3502993" "3818445" "3909594" "3944977" "4200861" "4213117" "4334241" "4449240").PN. OR ("4566125"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/12 17:20 |
| S84 | 166 | 382/287.ccls. | US-PGPUB; USPAT | OR | ON | 2007/09/18 21:23 |
| S85 | 40108 | (trim\$4 clip\$4 cut\$4 delet\$4 reduc\$3 mask\$3) near5 (key (reference wafer alignment) near2 mark) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/18 21:26 |
| S86 | 7 | S85 and S84 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/18 21:26 |
| S87 | 26 | (US-20020006561-\$ or US-20020191860-\$ or US-20030199131-\$).did. or (US-5815594-\$ or US-4880309-\$ or US-5172190-\$ or US-6925203-\$ or US-6856931-\$ or US-6072915-\$ or US-4566125-\$ or US-4213117-\$ or US-3796497-\$ or US-6373548-\$ or US-4115762-\$ or US-4794648-\$ or US-6333992-\$ or US-4667109-\$ or US-5680200-\$ or US-4699515-\$ or US-6668075-\$ or US-6295120-\$ or US-5272763-\$ or US-6424052-\$ or US-4798470-\$ or US-6278957-\$ or US-5771085-\$).did. | US-PGPUB; USPAT | OR | OFF | 2007/09/19 11:43 |
| S88 | 3862 | (detect\$3 find\$3 recogni\$7 identif\$7 search\$3 match\$3) near3 (shape type) near3 (mark key) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/19 11:43 |
| S89 | 5 | S88 and S87 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/19 11:43 |
| S90 | 11 | ("3898617" "4115762" "4566125" "4688088" "4794646" "4794648" "4878114" "5543921" "5627912").PN. OR ("6072915"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/19 12:01 |

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| S91 | 8 | align\$5 and S90 | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/09/19 12:02 |
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| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|------------------------------|------------------|---------|------------------|
| L1 | 3719 | (trim\$4 clip\$4 cut\$4 delet\$4 reduc\$3 mask\$3).clm. near5 (key (reference wafer alignment) near2 mark) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/10 12:19 |
| L2 | 31352 | 382/151,287.ccls. amd 1 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/10 12:20 |
| L3 | 13 | 382/151,287.ccls. and 1 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/10 12:20 |